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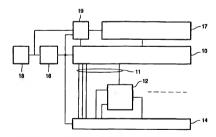
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(54) Title: INSTRUCTION CONTROLLED DATA PROCESSING DEVICE



[57] A bstract: The data processing device has a plurality of functional units and issues instructions in successive instruction cycles. Instructions of a first type are each intended for one functional unit at a time. An instruction of a second type causes a combination of functional units to respond in the same instruction execution cycle, a result from one functional unit burley used by another as part of the execution of the same instruction. Preferably, the device supports alternative operations at a number of different instruction of vecle rates, dependent on whether an executed program segment contains instructions of the second type. The fastest instruction cycle rates, dependent on whether are executed program segment contains instructions of the second type. The fastest instruction of the second type is considered to the fastest instruction of the second type. The fastest instruc

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